

New

# Eaton DX-RT 06-10 kW

Robust, Reliable, Rack and Tower Convertible,  
Efficient Power Management solution for  
Mission Critical Application



**EATON**

*Powering Business Worldwide*

# About **EAT•N**

Eaton is a global leading power management company with approximately 96,000 employees and has been in business for more than 100 years. Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power, safely and efficiently. In addition, these power management technologies help customers control costs and reduce their energy requirements.

Operating in

**175**

countries

**96,000**  
employees

**100+**  
years of  
experience

**18,000+**  
patents

**\$ 20.4**  
billion USD in  
sales

# New Eaton DX-RT 06-10 kW

## Robust, Reliable, Rack and Tower

### Convertible, Efficient Power Management solution



## Product Snapshot

Power Rating : 06-10 kW @ Unity PF  
Configuration : Rack & Tower  
Voltage : 230 Vac.  
Frequency : 50/60 Hz Auto Sensing  
Technology : High Frequency, Double Conversion

New Eaton DX-RT is a true online double conversion Rack and Tower Convertible UPS system that affordably provides Robust, Reliable, Compact and Efficient Power Management Solution for Mission Critical Application from downtime and data-loss. Eaton DX-RT delivers more power in limited space (2U) and saves energy cost due to it's highly efficient design and offers efficiency upto 95% in online mode. Eaton DX-RT perfectly fits in harsh Indian environmental and power condition and provides much stronger protection on inrush current and it improves it's adaptability to grid power condition.

## Key Application :

- Networking and Server Equipment.
- Small and Micro Data Centre application
- Bio-Metrics/Radiology and Medical Equipment.
- Security and Surveillance System/CCTV and CAMERA.
- Printer/IT-Load and PCs.

## Product Features & Performance

- IGBT Based Rectifier True Online Double Conversion
- New Graphical LCD Display.
- Rack & Tower Convertible, Higher power density (only 2u and <600mm depth for 10K)
- Wide Input Voltage window (110 – 275Vac) for Indian Environmental Condition.
- Double Conversion Efficiency upto 95%.
- Active Input Power Factor Correction 0.99.
- Unity Output Power Factor.
- Inbuilt OVCD (Over Voltage Cut-off device)
- Generator Compatible with Wide Input voltage window
- Frequency Range (40 Hz-70 Hz).
- Digital Charger Technology provide 0-12 A charging current.
- Adjustable Battery no's 16/17/18/19 and 20.
- 50/60 Hz Automatic Frequency Converter Mode.
- WINPOWER software support virtualization transfer application Intelligent Monitoring options.

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## Robust, Reliable, Rack and Tower

### Convertible, Efficient Power Management solution



### High Performance and Operation

#### Full Range Unity PF

- Unique in its class
- True Unity PF
- Delivers 11% more power
- Powers more servers
- Higher Power Density

### High Efficiency

- Unmatchable Efficiency upto 95% in Online Mode
- Unmatchable Efficiency >98% in ECO Mode
- Save running expenses

### Perfect I/O parameters

- 3% Input THDi
- 1% output THDV
- 0.995 input PF

### High Flexibility and Adaptability.

#### Flexible Battery Management.

- Meet the long backup time requirement with flexible battery configuration of 16~20 pcs battery configuration
- Adjustable charger current and set the most suitable charger current in a range of 0 to 12 Amps
- Battery capacity and battery run time information can be easily accessed from LCD or software.

### Flexible UPS Configuration.

- Stand alone.
- Hot-Stand by.
- Paralleling upto 3 UPS's.

### High Reliability and Availability

#### Enhanced materials

- Double layer FR4 material made power PCBA guarantee high reliability in transportation and operation.
- Conformal Coated Boards for Harsh Indian Environmental and Power Conditions

### High design margin

- No output power derating during 0~40°C ambient temperature
- New digital charger technology reduce charging current ripple and support full-range charging current setting accurately.
- Inbuilt Over Voltage Cut off device as standard Offer.
- Inbuilt Maintenance Bypass Switch support
- Support USB and RS232 Flash upgrading
- Better Overload Protection 105% Constant.

### Control Panel and Communication

#### Interface Control Panel

- Simplified user setting menu
- Password protected service setting menu
- Up to 100 event log can be read through LCD

### Communication offer

- RS232/USB Inbuilt
- EPO Inbuilt
- Programmable Dry in/Dry out
- Optional SNMP/BMS/AS400 Card



# New Eaton DX-RT 06-10 kW

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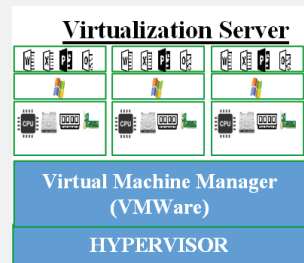
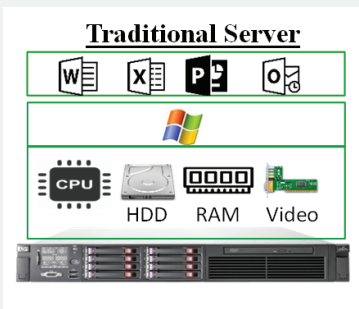
## Communication and Software Solution

Winpower intelligent monitoring solution provides excellent features to help customer manage UPS, trigger virtual machine migration plans to keep business running during power and environmental events.

- Central manage up to 1000 UPS
- Support virtualization transfer during power outage
- Provide mobile App and Web remote monitoring
- Provide server shutdown protection
- Support SMTP/SSL network encryption
- Support RS232/USB/SNMP communication

## Virtualization Transfer Application

**Virtualization Benefit-** Compare to traditional solution, virtualization solution will optimize IT asset and increase scalability, flexibility and efficiency.



## Virtualization Transfer

- Software process will be transferred to other server when UPS power failure happens to ensure customer business continuity.
- Software process will transfer back to original server when UPS power recovers.

**TECHNICAL SPECIFICATION OF EATON DX-RT 06 AND 10 kW**

Model Name	DXRT6K-IN	DXRT6KS-IN	DXRT10K-IN	DXRT10KS-IN
Catalog Name	DXRT6K-IN	DXRT6KS-IN	DXRT10K-IN	DXRT10KS-IN
Plant Part Number	9104-12896XT1	9104-12897XT1	9104-32686XT1	9104-32687XT1
UPC Code	743172091703	743172091680	743172091697	743172091710
<b>Input Characteristics</b>				
-Acceptable Input Voltage	110VAC-275VAC			
-Phase	Single phase with ground			
-Input voltage range to take 50% load	110VAC-275VAC			
-Input voltage range to take 100% load	160VAC-275VAC			
-Inrush Current Limit	8*Ims			
-Input Power Factor	≥0.995			
-Input Frequency Range	45-55Hz / 54-66Hz (extendable to 40-70Hz when load < 60%)			
-Input protection	upstream breaker			
-Generator Set	1.5 x UPS Rating Power			
<b>Output Characteristics</b>				
-Power(VA) max	6000	6000	10000	10000
-Power(W) max	6000	6000	10000	10000
-Power Factor	1.0			
-Waveform	Pure sine wave			
-Nominal voltage	208V/220V/230V/240V			
-Voltage Variation	± 1 %			
-Voltage distortion	< 1% THD@ linear load <5% @non-linear load			
-Synchronization range	45-55Hz / 54-66Hz (extendable to 40-70Hz when load < 60%)			
<b>Full Load Efficiency</b>				
-Line mode with battery full charged	95% @ 230V output with typical load			
-ECO mode	≥98%			
<b>Battery Characteristics</b>				
-Inner Battery Rating/Type	12V/7AH*16 (16/17/18/19/20 adjustable)	NA	12V/9AH*16 (16/17/18/19/20 adjustable)	NA
-External battery connection	Connector			
-Back-up Time (50% load)	11 minutes typical	/	8 minutes typical	/
-Back-up Time (70% load)	6.5 minutes typical	/	5 minutes typical	/
-Back-up Time (full load)	4 minutes typical	/	2.1 minutes typical	/
-DC Voltage	192VDC (192V-240V adjustable)			
-Charger current	default 1.4A (0-4A adjustable)	default 4A (0-12A adjustable)	default 2A (0-4A adjustable)	default 4A (0-12A adjustable)
-Floating Voltage Phase	13.65V/pc			
-Charging time	3 hours to 90% with internal battery	/	3 hours to 90% with internal battery	/
<b>Features</b>				
-ECO Mode	YES			
-Battery Capacity Calculation	YES			
-Fan Speed Control	YES			
-Frequency Converter Mode(CVCF)	YES, 60% load			
-Maintenance Bypass Switch	factory optional			
-Parallel	optional (up to 3 units)			
<b>Mechanical &amp; Environmental Characteristics</b>				
-WxHxD(mm)	438* 86.2* 573	438* 86.2* 573	438* 86.2* 573	438* 86.2* 573
-Net weight (Kg) (not including battery)	13	13.1	14.7	15
-Wheels	NO			
Operating Temperature Range	0°C – 40 °C (40-50°C 50% load)			
Relative Humidity	0 – 95% (No condensing)			
Audible Noise(>75% load, charger current >2A)	≤55dB		≤60dB	

# Other Eaton UPS Solutions

## Single Phase UPS Solutions

### PC, Workstation and Home AV UPS

- Eaton Aurora 600 VA-1000 VA Line interactive UPS.

### Network and Server (1:1)

- Eaton 9E-IN 1-10 kVA Online Double Conversion UPS.
- Eaton 9145 1-10 kVA Online Double Conversion UPS.
- Eaton 9130 1-6 kVA Rack and Tower Convertible Online Double Conversion UPS.
- Eaton 9PX 1-6 kVA Rack and Tower Convertible Online Double Conversion UPS.

### Network and Server (3:1)

- Eaton 9145 10-15-20 kVA Online Double Conversion UPS.
- Eaton 9PX 8-11 kVA Rack and Tower Convertible Online Double Conversion UPS.
- Eaton 9155 8-15 kVA Online Double Conversion UPS.
- Eaton 91PS 8-30 kW Online Double Conversion UPS.
- Eaton 93 STS 100/250/400/630/800/1000 & 1250 Amps- Static Transfer Switch



## Three Phase UPS Solutions

### Data Centre and Facility UPS (Monolithic)

- Eaton Blade-UPS 10/24/36/48/60 kW
- Eaton 93E 15/20/30/40/60/80 kVA.
- Eaton 93E 100/120/160/300/400/400 kVA.
- Eaton 9395 275 -1100 kVA
- Eaton 9395P 250-1200 kW



### Data Centre and Facility UPS (Modular)

- Eaton 93PS 8/10/15/20/30/40 kW Modular UPS.
- Eaton 93PR 25-200 kW Modular UPS
- Eaton 93PM 30-500 kVA Modular UPS

## Marine and Industrial UPS solutions

### Single Phase UPS

- Eaton 9130 Marine UPS 1000/2000/3000 VA UPS.
- Eaton 9PX Marine UPS 1500 & 3000 W
- Eaton 9155 Marine UPS 8-15 kVA

### Three Phase UPS

- Eaton 9355 Marine 8-40 kVA.
- Eaton 93PS 8-40 kW
- Eaton 9PHD 30-200 kW.





*Powering Business Worldwide*

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